

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer-readable recording-medium having a data structure for managing video data recorded on the computer-readable recording-medium, comprising:

a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets of the stream; and

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

2. (Currently Amended) The computer-readable recording-medium of claim 1, wherein said fixed time interval is not greater than 700 milliseconds.

3. (Currently Amended) A computer-readable recording-medium having a data structure for managing video data recorded on the computer-readable recording-medium, comprising:

a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed recording area of the computer-readable recording-medium; and

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

4. (Currently Amended) The computer-readable recording-medium of claim 3, wherein said fixed recording area is a sector.

5. (Currently Amended) The computer-readable recording-medium of claim 4, wherein said sector has a recording area of 2048 bytes.

6. (Currently Amended) The computer-readable recording-medium of claim 3, wherein each of said time control information areas is recorded in a first data packet within said fixed recording area of the computer-readable recording-medium.

7. (Currently Amended) The computer-readable recording-medium of claim 3, wherein each of said time control information areas is recorded in an arbitrary one data packet within said fixed recording area of the computer-readable recording-medium.

8. (Currently Amended) A computer-readable recording-medium having a data structure for managing video data recorded on the computer-readable recording-medium, comprising:

a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream; and

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

9. (Currently Amended) The computer-readable ~~recording~~ medium of claim 8, wherein said fixed packet interval is 10 packets.

10. (Currently Amended) A computer-readable ~~recording~~ medium having a data structure for managing video data recorded on the computer-readable ~~recording~~ medium, comprising:

a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable recording medium;

a plurality of program reference timing control areas recording in said plurality of data packets on the recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets also having one of said program reference timing control areas; and

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

11. (Currently Amended) A method of recording a data structure for managing reproduction of video data recorded on a computer-readable ~~the recording~~ medium, comprising:

recording a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files on the computer-readable recording medium;

recording a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets; and

recording management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

12. (Currently Amended) A method of reproducing a data structure for managing reproduction of video data recorded on a computer-readable ~~the recording~~ medium, comprising:

reproducing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable ~~recording~~ medium;

reproducing a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets; and

reproducing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

13. (New) An apparatus for recording a data structure for managing reproduction of video data recorded on a computer-readable medium, comprising:

an optical recording device configured to record a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files on the computer-readable medium, a plurality of time control information on the computer-readable medium, and management information on the computer-readable medium; and

a controller for controlling the optical recording device to record a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets, and to record the management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.

14. (New) An apparatus for reproducing a data structure for managing reproduction of video data recorded on a computer-readable medium, comprising:

an optical reproducing device configured to reproduce a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium, a plurality of time control information recorded on

the computer-readable medium, and management information recorded on the computer-readable medium; and

a controller for controlling the optical recording device to reproduce a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas are recorded on the computer-readable medium at a fixed time interval in a corresponding one of said plurality of data packets, and to reproduce the management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file.